

SECTION **CL****MODIFICATION NOTICE:**

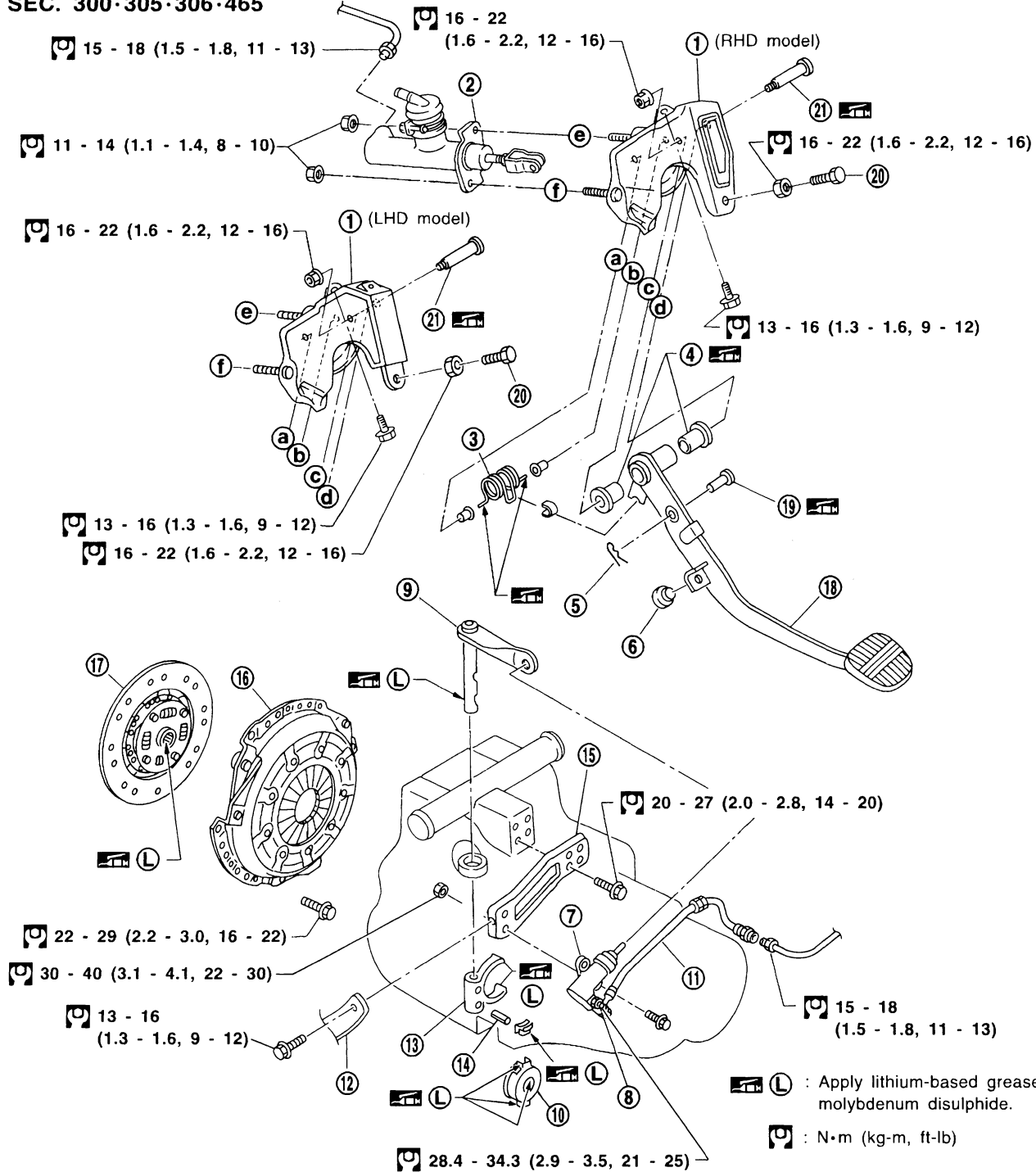
- The parts locations and service data and specifications (SDS) have been changed.
- The tightening torque and lubricant have been changed.

CONTENTS

CLUTCH SYSTEM — Hydraulic Type	2	Clutch Damper	5
CLUTCH SYSTEM — Mechanical Type	3	CLUTCH RELEASE MECHANISM	6
HYDRAULIC CLUTCH CONTROL	4	SERVICE DATA AND SPECIFICATIONS (SDS)	7
Clutch Master Cylinder	4	General Specifications	7
Operating Cylinder	5	Inspection and Adjustment	8

CLUTCH SYSTEM — Hydraulic Type

SEC. 300·305·306·465

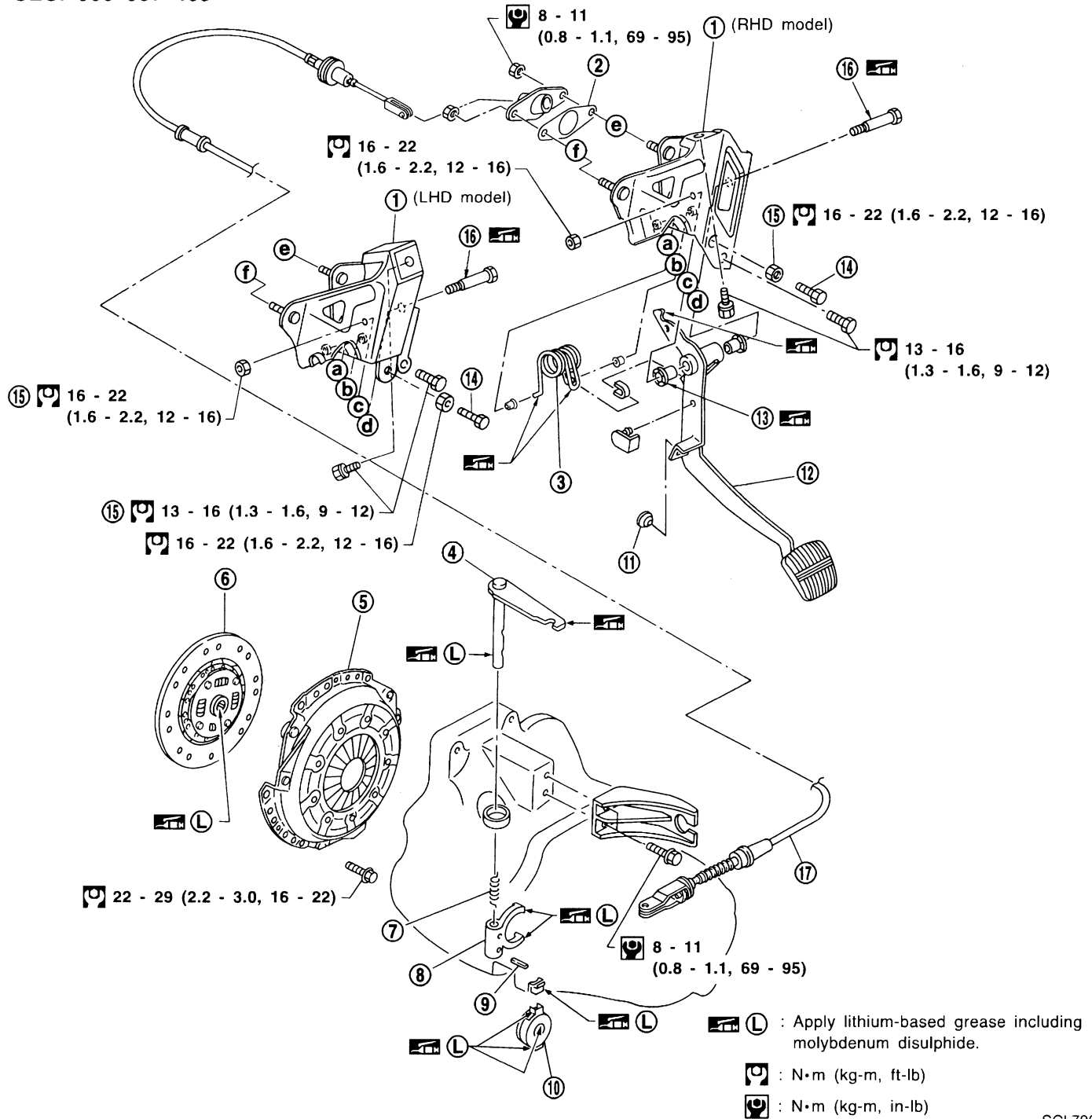


SCL789

- | | | |
|--------------------------|--------------------------------------|------------------------------|
| ① Clutch pedal bracket | ⑧ Air bleeder screw | ⑮ Operating cylinder bracket |
| ② Clutch master cylinder | ⑨ Withdrawal lever | ⑯ Clutch cover |
| ③ Assist spring | ⑩ Release bearing | ⑰ Clutch disc |
| ④ Bushing | ⑪ Clutch hose | ⑱ Clutch pedal |
| ⑤ Pin | ⑫ Operating cylinder support bracket | ⑲ Clevis pin |
| ⑥ Stopper rubber | ⑬ Clutch lever | ⑳ Pedal stopper |
| ⑦ Operating cylinder | ⑭ Spring pin | ㉑ Fulcrum pin |

CLUTCH SYSTEM — Mechanical Type

SEC. 300·307·465



SCL790

- ① Clutch pedal bracket
- ② Insulator
- ③ Assist spring
- ④ Withdrawal lever
- ⑤ Clutch cover
- ⑥ Clutch disc

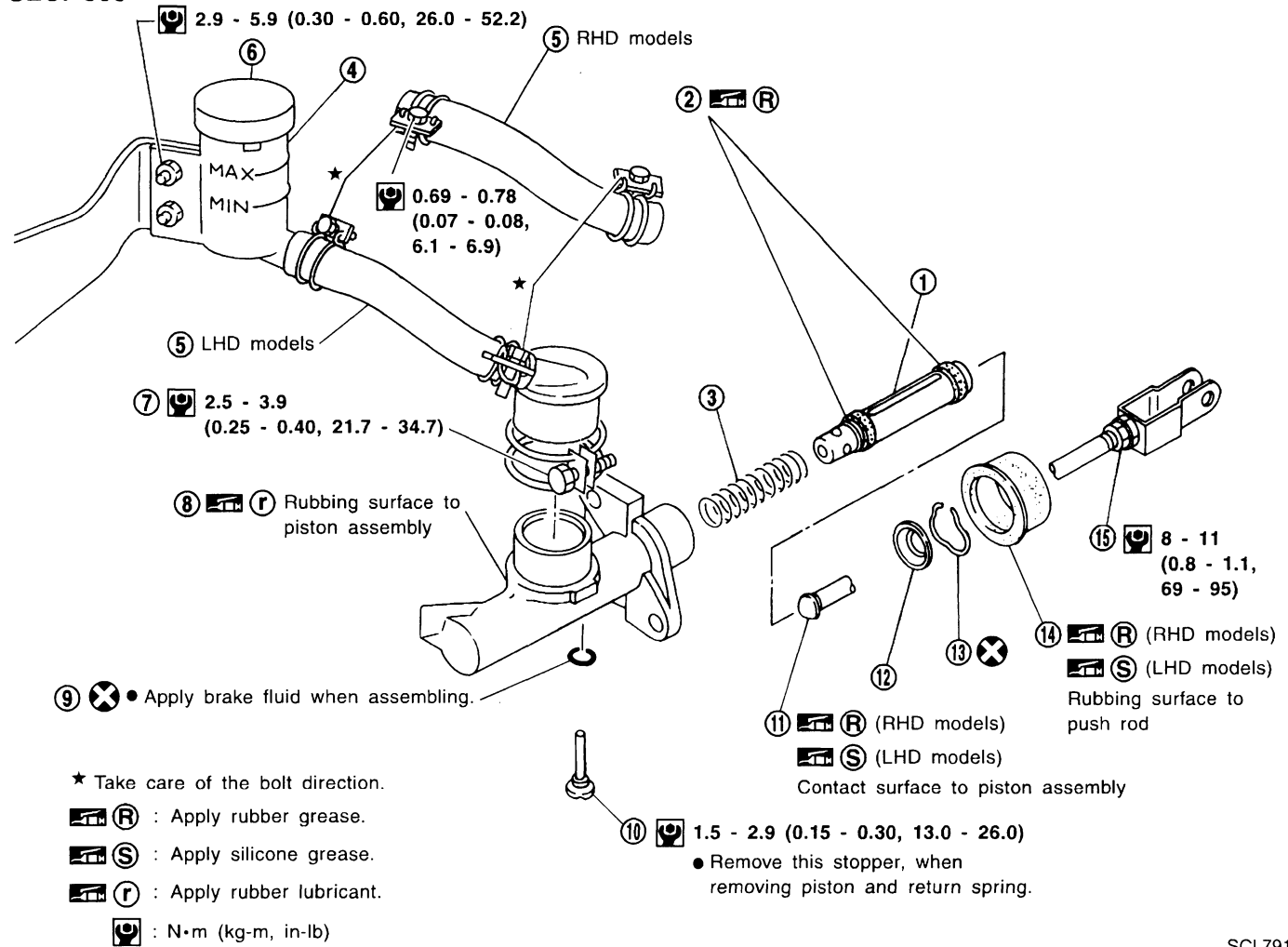
- ⑦ Return spring
- ⑧ Clutch lever
- ⑨ Spring pin
- ⑩ Release bearing
- ⑪ Stopper rubber
- ⑫ Clutch pedal

- ⑬ Bushing
- ⑭ Pedal stopper
- ⑮ Lock nut
- ⑯ Fulcrum pin
- ⑰ Clutch cable

HYDRAULIC CLUTCH CONTROL

Clutch Master Cylinder

SEC. 305



SCL791

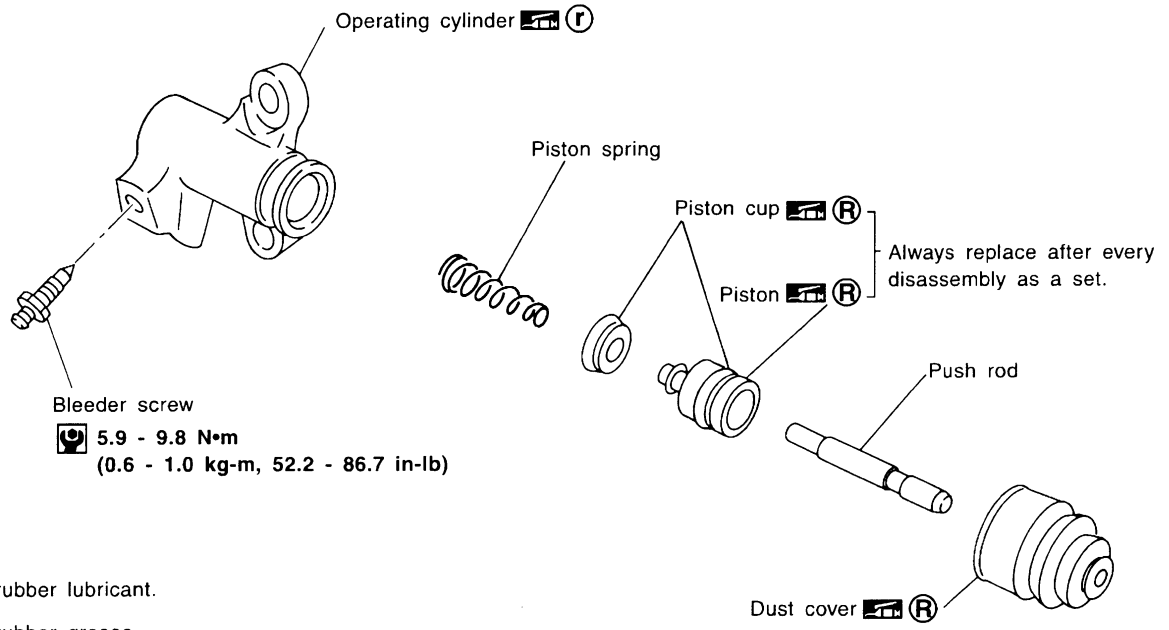
- ① Piston assembly
- ② Piston cup
- ③ Return spring
- ④ Reservoir tank
- ⑤ Reservoir hose

- ⑥ Reservoir cap
- ⑦ Reservoir band
- ⑧ Cylinder body
- ⑨ Packing
- ⑩ Valve stopper

- ⑪ Push rod
- ⑫ Stopper
- ⑬ Stopper ring
- ⑭ Dust cover
- ⑮ Lock nut

Operating Cylinder

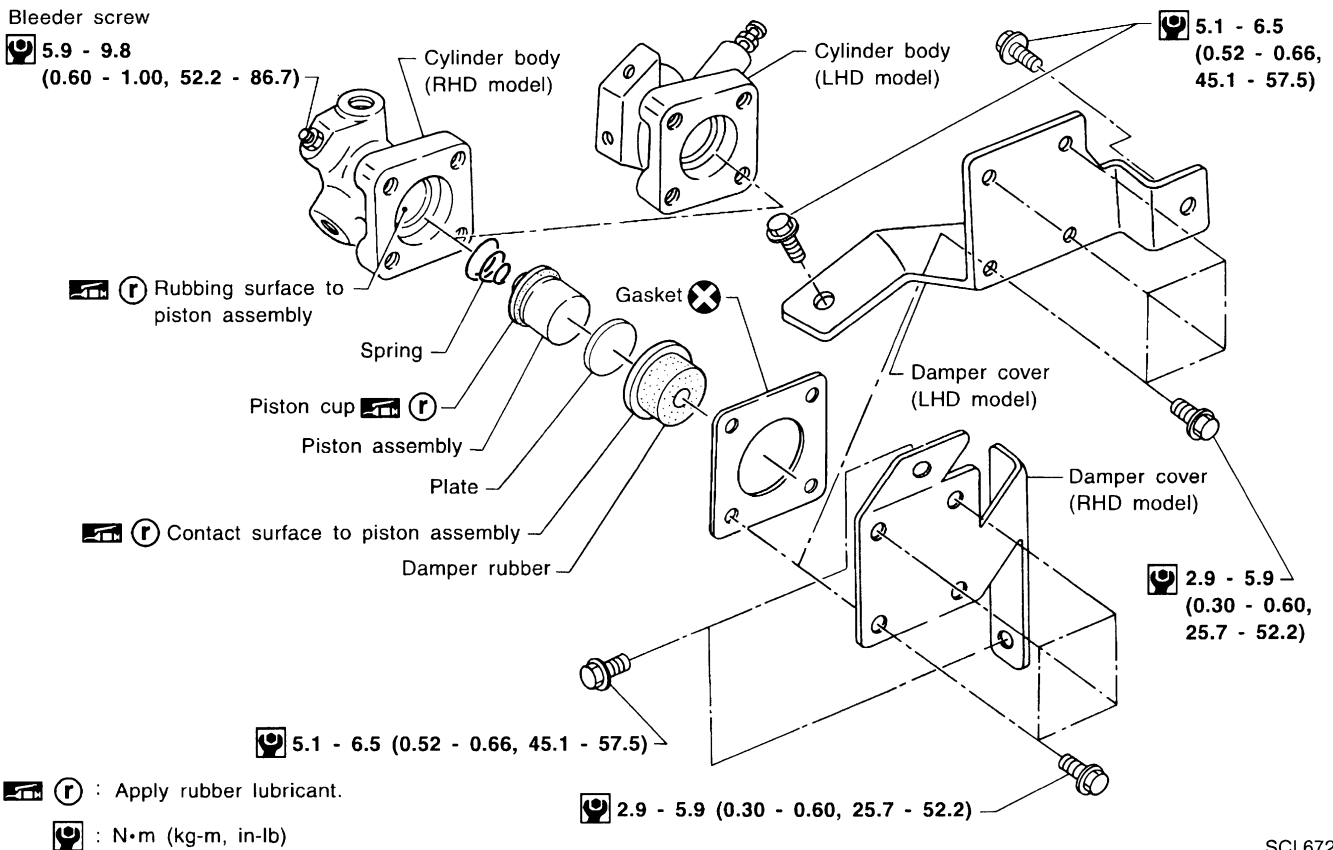
SEC. 306



SCL792

Clutch Damper

SEC. 306

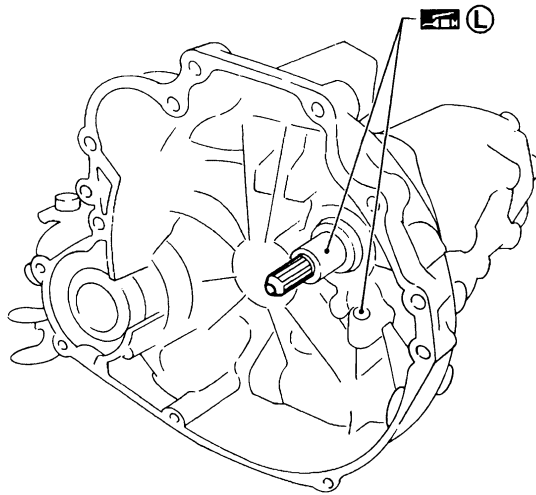


SCL672-A

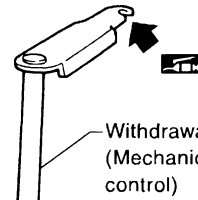
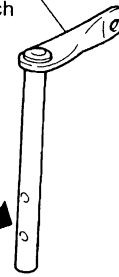
CLUTCH RELEASE MECHANISM

SEC. 321

Except SR20DE engine models



Withdrawal lever
(Hydraulic clutch control)



Withdrawal lever
(Mechanical clutch control)

Return spring

Bearing retainer★

Clutch lever assembly

Clutch release bearing

Spring pin

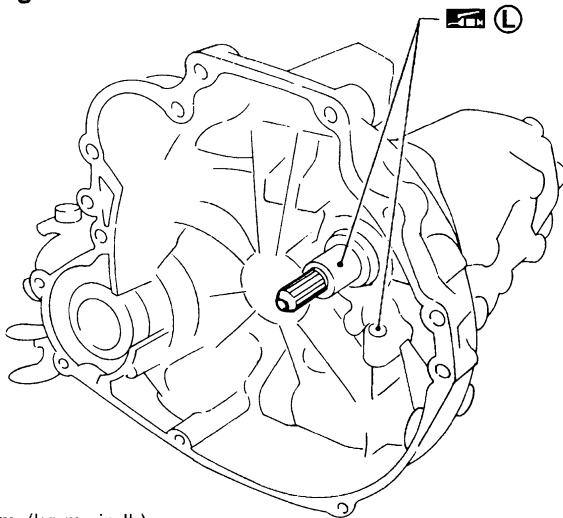
★ : Pay attention to direction of bearing retainer.

L : Apply lithium-based grease including molybdenum disulphide.

SCL793

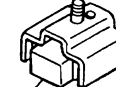
SEC. 321

SR20DE engine model



9.3 - 10.8
(0.95 - 1.1, 82.5 - 95.5)

Withdrawal lever



Damper

Return spring

Bearing retainer★

Clutch lever

★ Pay attention to direction of bearing retainer.

Clutch release bearing

Spring pin

: N·m (kg-m, in-lb)

L : Apply lithium-based grease including molybdenum disulphide.

SCL794

SERVICE DATA AND SPECIFICATIONS (SDS)

General Specifications

CLUTCH CONTROL SYSTEM

Engine	Except for CD20	CD20
Type of clutch control	Mechanical	Hydraulic

CLUTCH MASTER CYLINDER

Inner diameter	mm (in)	15.87 (5/8)
----------------	---------	-------------

CLUTCH DAMPER

Inner diameter	mm (in)	19.05 (3/4)
----------------	---------	-------------

CLUTCH OPERATING CYLINDER

Inner diameter	mm (in)	17.46 (11/16)
----------------	---------	---------------

CLUTCH DISC

Unit: mm (in)

Engine	GA14DE	GA15DE, GA16DE	CD20	SR20DE
Facing size (Outer dia. x inner dia. x thickness)	180 x 125 x 3.5 (7.09 x 4.92 x 0.138)	190 x 132 x 3.5 (7.48 x 5.20 x 0.138)	200 x 130 x 3.5 (7.87 x 5.12 x 0.138)	215 x 140 x 3.5 (8.46 x 5.51 x 0.138)
Thickness of disc assembly with load	8.0 - 8.4 (0.315 - 0.331) with 3,923 N (400 kg, 882 lb)			7.6 - 8.0 (0.299 - 0.315) with 3,923 N (400 kg, 882 lb)

CLUTCH COVER

Engine	GA14DE	GA15DE	GA16DE	CD20	SR20DE
Full-load N (kg, lb)	3,432 (350, 772)		3,825 (390, 860)	3,481 (355, 783)	4,413 (450, 992)

SERVICE DATA AND SPECIFICATIONS (SDS)

Inspection and Adjustment

CLUTCH PEDAL

Unit: mm (in)

Applied model	Except for CD20 engine models		CD20 engine models	
	RHD	LHD	RHD	LHD
Pedal height "H"	159 - 169 (6.26 - 6.65)*1	153 - 163 (6.02 - 6.42)*2	156 - 166 (6.14 - 6.54)*1	149 - 159 (5.87 - 6.26)*2
Pedal free travel "A" (at pedal pad)	11 - 15 (0.43 - 0.59)		9 - 16 (0.35 - 0.63)	
Withdrawal lever play "B"	2.5 - 3.5 (0.098 - 0.138)		—	

*1: Measured from surface of dash reinforcement panel to surface of pedal pad.

*2: Measured from surface of dash lower panel to surface of pedal pad.

CLUTCH DISC

Unit: mm (in)

Engine	GA14DE	GA15DE, GA16DE	CD20	SR20DE
Wear limit of facing surface to rivet head	0.3 (0.012)			
Runout limit of facing	1.0 (0.039)			
Distance of runout check point (from hub center)	85 (3.35)	90 (3.54)	95 (3.74)	102.5 (4.04)
Maximum backlash of spline (at outer edge of disc)	0.7 (0.028)	0.8 (0.031)		0.9 (0.035)

CLUTCH COVER

Unit: mm (in)

Engine	GA14DE	GA15DE, GA16DE	CD20	SR20DE
Uneven limit of diaphragm spring toe height	0.7 (0.028)	0.7 (0.028)		